

Abstract of the Disclosure

A method for optically copying a packet is provided. The method performs a broadcasting operation of a packet in a subscriber access network based on a wavelength division multiplexing using an optical broadcast module, which is disposed independently from an optical label exchange (OLX) switch. The method includes: (a) dividing the packet, which is received from an optical group exchange (OGX) controlled by the OLX switch, into a header and a payload; (b) applying the payload to an i-th port of the OLX switch; (c) leading the payload to the optical broadcast module by controlling the OLX switch so that when the header represents a label for broadcasting, a corresponding broadcasting port of the OLX switch is set as an output port of the OLX switch; and (d) reframing the header and the payload and transmitting the reframed header and the payload to a backbone network using the optical broadcast module.